

WHAT IS CLAIMED IS:

1. An information recording apparatus for recording information to be recorded in an information recording medium and generating reproduction controlling information for controlling a reproduction manner upon reproducing the recording information after recording at the time of recording of the recording information to record it in the information recording medium as well as the recording information, the information recording apparatus comprising:
 - 10 a designating device for designating division timing in the recording information in case of dividing continuous recording information to record it in the information recording medium;
 - 15 a recording device for recording former part recording information which is the recording information before the designated division timing, and latter part recording information which is the recording information after the designated division timing, in the information recording medium; and
 - 20 a generating and recording device for repeating generating former reproduction controlling information which is the reproduction controlling information in associated with the former part recording information, and latter reproduction controlling information which is the reproduction controlling information in associated with the latter part recording information to record them in the information recording medium every time when the division timing is designated.

2. An information recording apparatus for newly generating division reproduction controlling information which is reproduction controlling information for dividing and reproducing the recording information from an information recording medium, in which continuous recording
5 information and the reproduction controlling information for controlling the reproduction manner of the recording information are recorded, to record it in the information recording medium, the information recording apparatus comprising:

a designating device for designating a division timing in the
10 recording information; and

a generating and recording device for repeating newly generating former reproduction controlling information which is the reproduction controlling information, in associated with former part recording information which is the recording information before the designated
15 division timing, and latter reproduction controlling information which is the reproduction controlling information in associated with latter part recording information which is the recording information after the designated division timing, to record them as the division reproduction controlling information in the information recording medium every time
20 when the division timing is designated.

3. The information recording apparatus according to claim 2, wherein the designating device comprises a reproduction designating device for designating the division timing while reproducing the
25 recording information, which is recorded.

4. The information recording apparatus according to claim 2,
wherein the former reproduction controlling information includes order
information to indicate a reproduction order of the former part
recording information and range information to indicate a range where
5 the former part recording information is recorded in the recording
information; and the latter reproduction controlling information
includes order information to indicate a reproduction order of the latter
part recording information and range information to indicate a range
where the latter part recording information is recorded in the recording
10 information.

5. The information recording apparatus according to claim 3,
wherein the former reproduction controlling information includes order
information to indicate a reproduction order of the former part
recording information and range information to indicate a range where
15 the former part recording information is recorded in the recording
information; and the latter reproduction controlling information
includes order information to indicate a reproduction order of the latter
part recording information and range information to indicate a range
where the latter part recording information is recorded in the recording
20 information.

6. The information recording apparatus according to claim 1,
wherein the recording information comprises audio information
25 including at least music information and voice information.

7. The information recording apparatus according to claim 2,
wherein the recording information comprises audio information
including at least music information and voice information.
- 5 8. The information recording apparatus according to claim 1,
wherein the information recording medium is a DVD capable of
recording the information.
9. The information recording apparatus according to claim 2,
10. wherein the information recording medium is a DVD capable of
recording the information.
10. An information recording method of recording information to be
recorded in an information recording medium and generating
15 reproduction controlling information for controlling a reproduction
manner upon reproducing the recording information after recording at
the time of recording of the recording information to record it in the
information recording medium as well as the recording information, the
information recording method comprising the processes of:
20 designating a division timing in the recording information in case
of dividing continuous recording information to record it in the
information recording medium;
recording former part recording information which is the
recording information before the designated division timing, and latter
25 part recording information which is the recording information after the
designated division timing, in the information recording medium; and

repeating generating former reproduction controlling information which is the reproduction controlling information in associated with the former part recording information, and latter reproduction controlling information which is the reproduction controlling information in
5 associated with the latter part recording information to record them in the information recording medium every time when the division timing is designated.

11. An information recording method of newly generating division reproduction controlling information which is reproduction controlling information for dividing and reproducing the recording information from an information recording medium, in which continuous recording information and the reproduction controlling information for controlling the reproduction manner of the recording information are recorded, to
15 record it in said information recording medium, the information recording method comprising the processes of:

designating a division timing in the recording information; and
repeating newly generating former reproduction controlling information which is the reproduction controlling information in
20 associated with the former part recording information which is the recording information before the designated division timing, and the latter reproduction controlling information which is the reproduction controlling information in associated with the latter part recording information which is the recording information after the designated
25 division timing, to record them as the division reproduction controlling

information in the information recording medium every time when the division timing is designated.

12. The information recording method according to claim 11, wherein
5 the process of designating the division timing designates the division timing while reproducing the recording information, which is recorded.

13. The information recording method according to claim 11, wherein
the former reproduction controlling information includes order
10 information to indicate a reproduction order of the former part recording information and range information to indicate a range where the former part recording information is recorded in the recording information; and the latter reproduction controlling information includes order information to indicate a reproduction order of the latter part recording information and range information to indicate a range where the latter part recording information is recorded in the recording information.
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14. The information recording method according to claim 12, wherein
20 the former reproduction controlling information includes order information to indicate a reproduction order of the former part recording information and range information to indicate a range where the former part recording information is recorded in the recording information; and the latter reproduction controlling information includes order information to indicate a reproduction order of the latter part recording information and range information to indicate a range
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where the latter part recording information is recorded in the recording information.

15. The information recording method according to claim 10, wherein
5 the recording information comprises audio information including at least music information and voice information.

16. The information recording method according to claim 11, wherein
the recording information comprises audio information including at
10 least music information and voice information.

17. The information recording method according to claim 10, wherein
the information recording medium is a DVD capable of recording the
information.

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18. The information recording method according to claim 11, wherein
the information recording medium is a DVD capable of recording the
information.